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1. (Amended) A polypeptide isolated from mammals, characterized in that it comprises, at its C-terminal end, a heptapeptide having the following sequence: Cys-Phe,Trp-Lys-Tyr-Cys-Xaa, in which Xaa represents Val or Ile, in that it belongs to the urotensin II family and in that it exhibits at least 45% similarity with the polypeptide sequence SEQ ID NO:1, corresponding to human prepro-urotensin II.

- 3. (Amended) A purified nucleic acid fragment, characterized in that it is selected from the group consisting of:
- a) the fragments comprising at least one sequence encoding a polypeptide as claimed in claim 1,
- b) the fragments consisting of a sequence encoding a polypeptide as claimed in claim 1,
- c) the oligonucleotides derived from the sequences as defined in b), constituting probes or primers, and
- d) the sequences complementary to the above sequences, which may be sense or antisense sequences, with the exception of the EST having the Gen Bank accession number AA535545.
- 5. (Amended) A recombinant vector, characterized in that it contains a nucleic acid fragment as claimed in claim 3.
- 6. (Amended) A cell transformed with at least one nucleic acid fragment as claimed in claim 3.
- 7. (Amended) A reagent for detecting a nucleic acid fragment as claimed in claim 3, characterized in that it comprises between 20 and 50 nucleotides of the sequence SEQ ID NO:4, of the sequence SEQ ID NO:18 or of the sequence SEQ ID NO:27.



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9. (Amended) A pharmaceutical composition characterized in that it comprises at least one polypeptide isolated from mammals, characterized in that it comprises, at its C-terminal end, a heptapeptide having the following sequence: Cys-Phe,Trp-Lys-Tyr-Cys-Xaa, in which Xaa represents Val or Ile, in that it belongs to the urotensin II family and in that it exhibits at least 45%, and preferably at least 70%, similarity with the polypeptide sequence SEQ ID NO:1, corresponding to human prepro-urotensin II, or one nucleic acid sequence as claimed in claim 3 encoding all or part of said polypeptides, combined with at least one pharmaceutically acceptable vehicle.

- 11. (Amended) A process for detecting the presence or absence of an mRNA encoding a mammalian urotensin II, in particular in individuals with a neurodegenerative pathology or a trauma to the spinal cord, by bringing a biological sample into contact with at least one reagent as claimed in claim 7.
- 12. (Amended) A process for detecting a mutation in the sequence of the gene or of the mRNA encoding urotensin, characterized in that it comprises extracting said DNA or said mRNA from a biological sample and comparing it with the nucleic acid sequences as claimed in claim 3.
- 13. (Amended) A diagnostic kit intended for detecting an mRNA encoding a mammalian urotensin II, in a biological sample, said mRNA possibly being mutated, characterized in that it comprises at least one sequence as claimed in claim 3.
- 14. (Amended) A method for selecting anti-hypertensives comprising determining the activity of an anti-hypertensive against urotensin II as an antagonist.

Please add the following new claims.